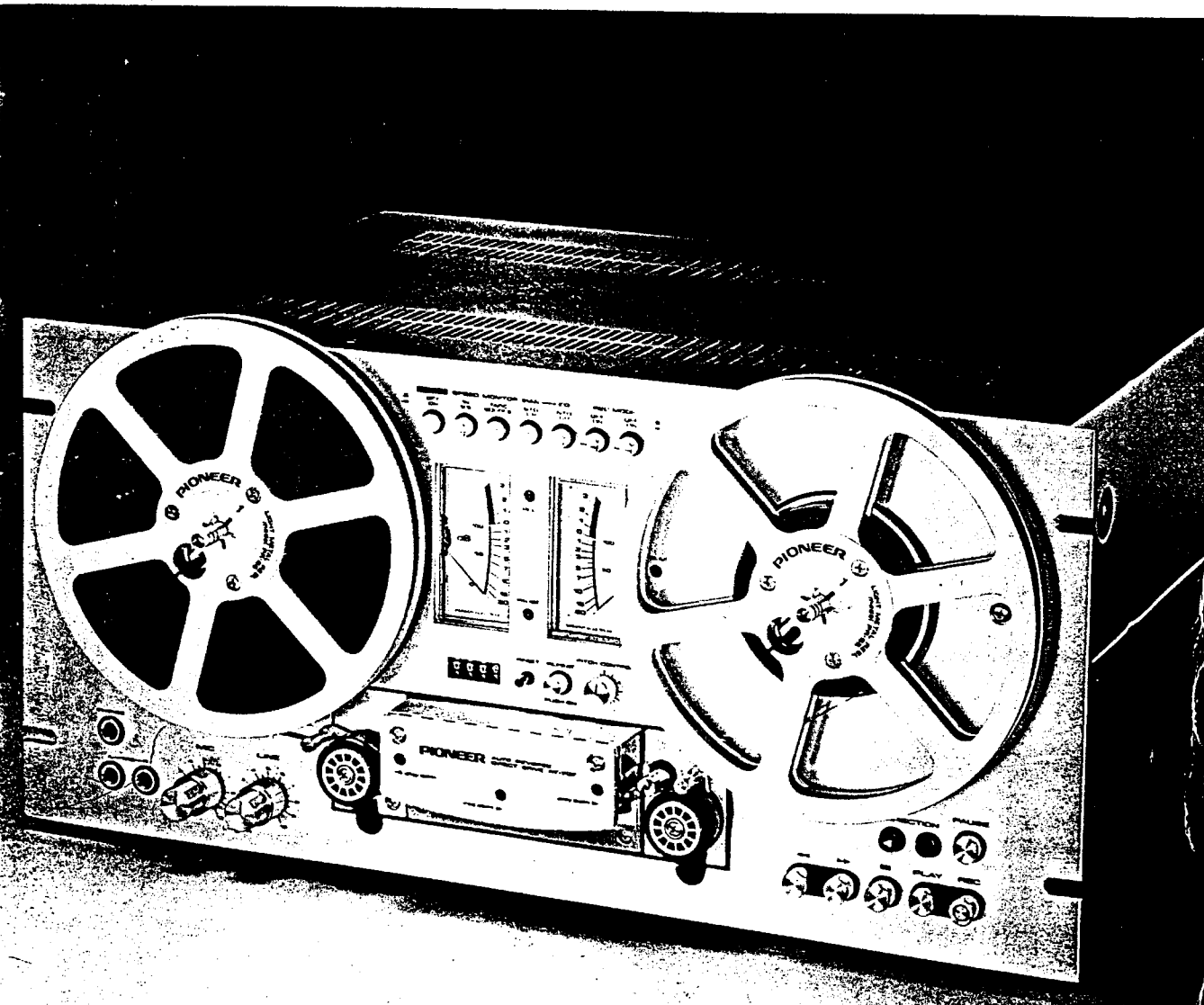
3-MOTOR 4-HEAD TAPE DECK

RT-707

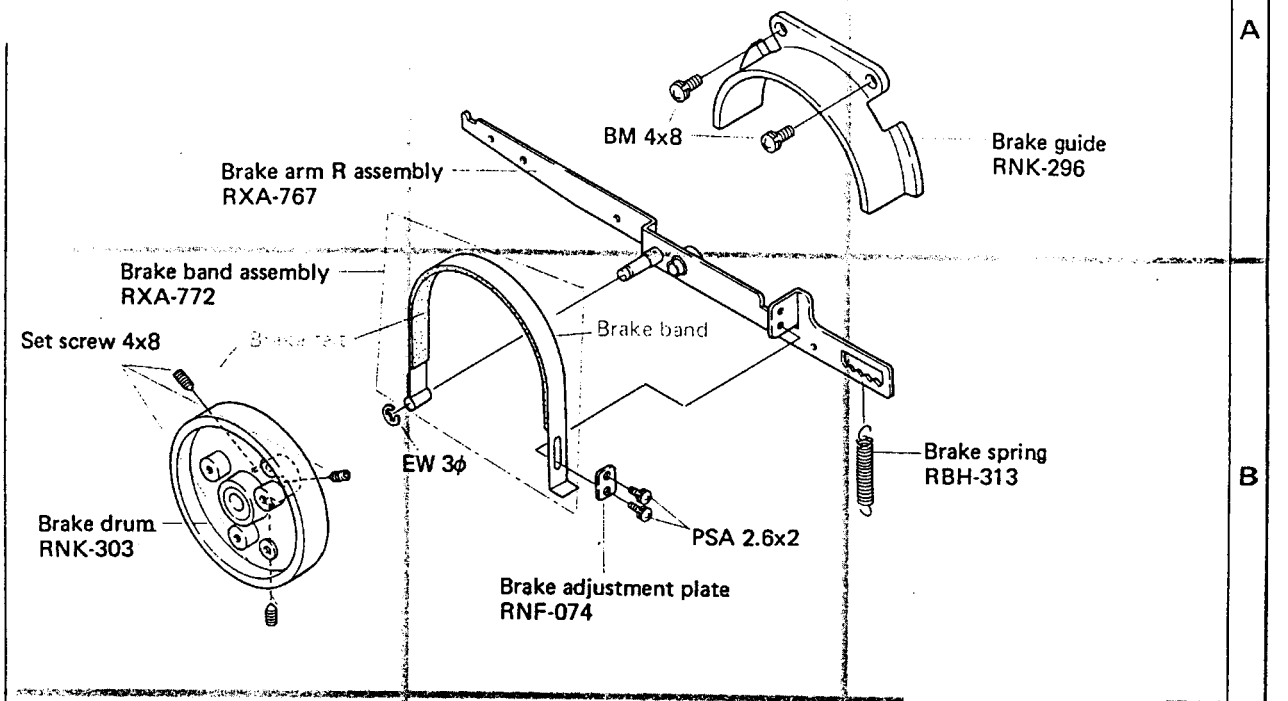
SERVICE MANUAL



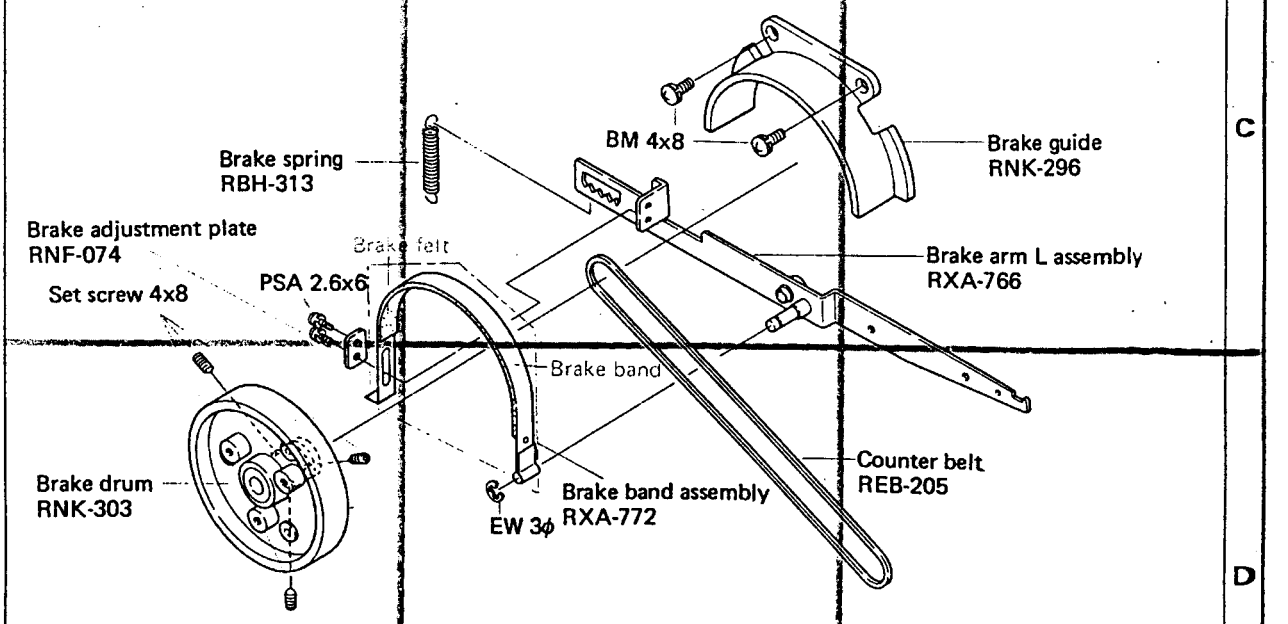
PIONEER

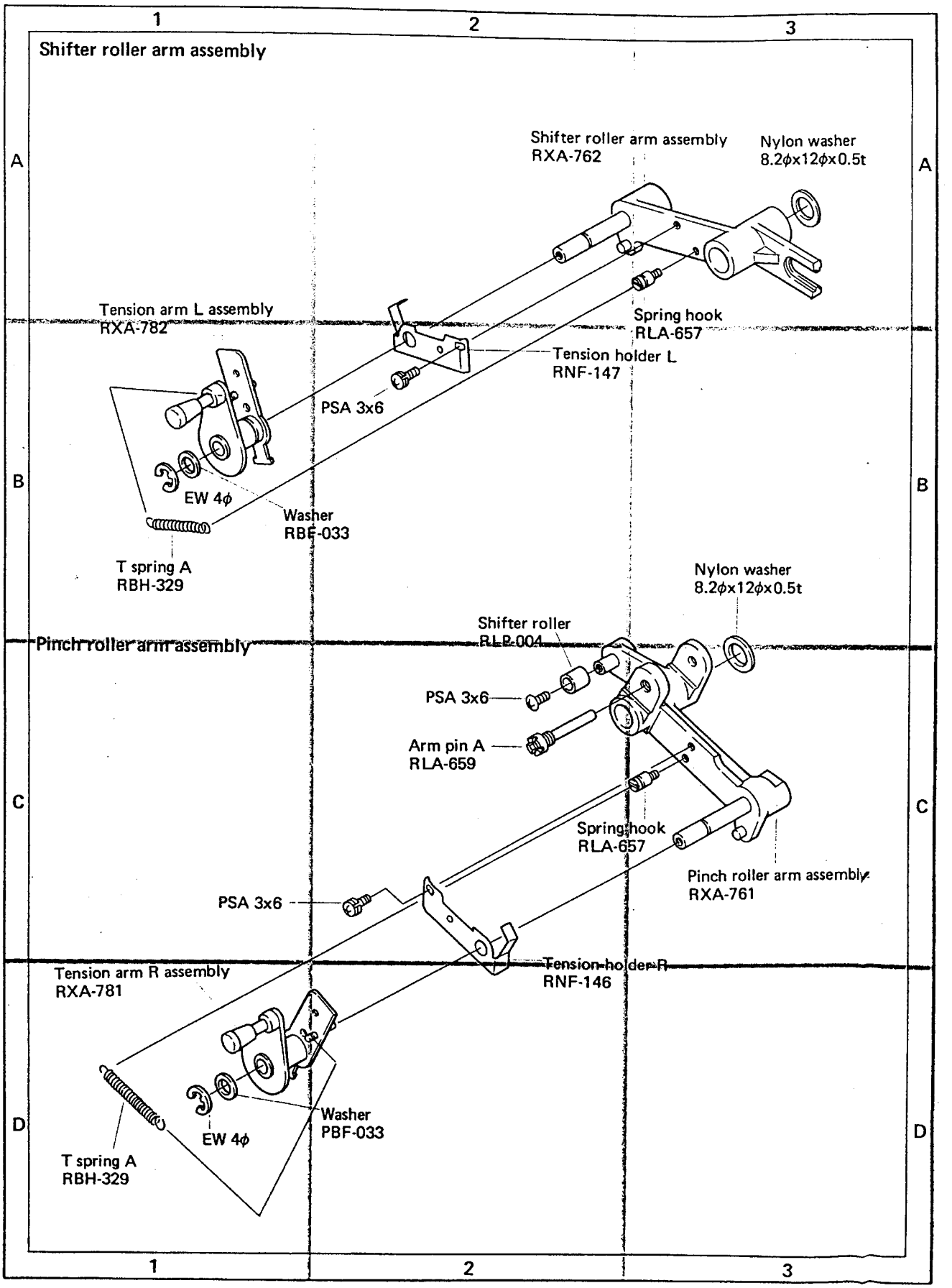
ake assembly R

NOTE:
Parts indicated in green type cannot be supplied.



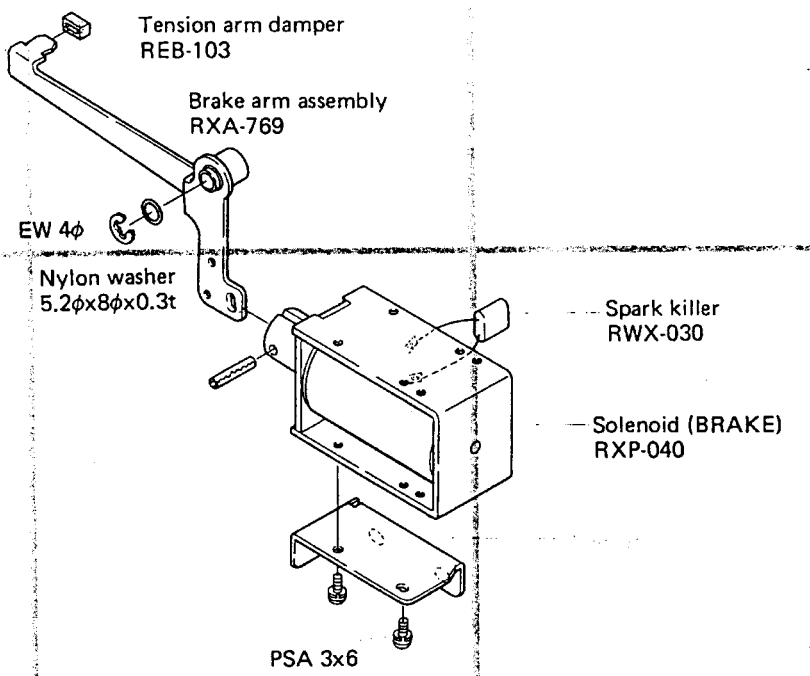
Brake assembly L



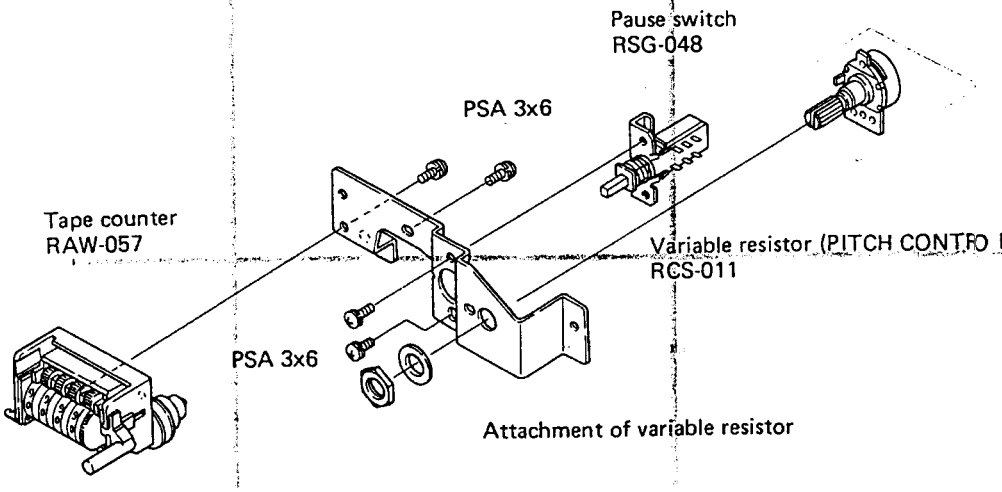

Shifter roller arm assembly
Shifter roller arm assembly
RXA-762
Nylon washer
8.2φx12φx0.5t
Tension arm L assembly
RXA-782
Spring hook
RLA-657
Tension holder L
RNF-147
PSA 3x6
EW 4φ
Washer
RBF-033
T spring A
RBH-329
Nylon washer
8.2φx12φx0.5t
Shifter roller
RLR-004
Pinch roller arm assembly
PSA 3x6
Arm pin A
RLA-659
Spring hook
RLA-657
Pinch roller arm assembly
RXA-761
PSA 3x6
Tension holder R
RNF-146
Tension arm R assembly
RXA-781
Washer
PBF-033
EW 4φ
T spring A
RBH-329
1
2
3
A
B
C
D

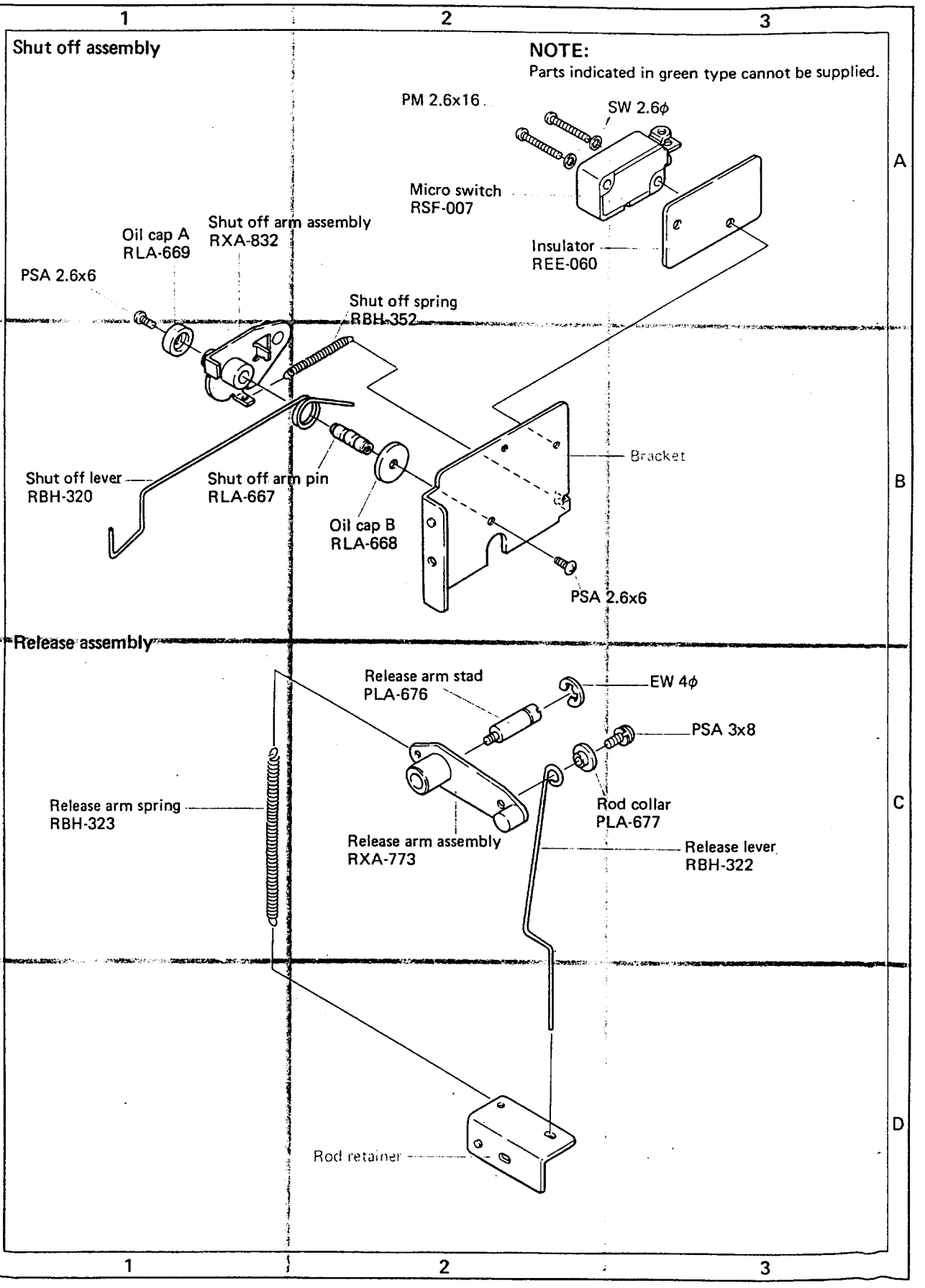
Solenoid (BRAKE) assembly

NOTE:
Parts indicated in green type cannot be supplied.



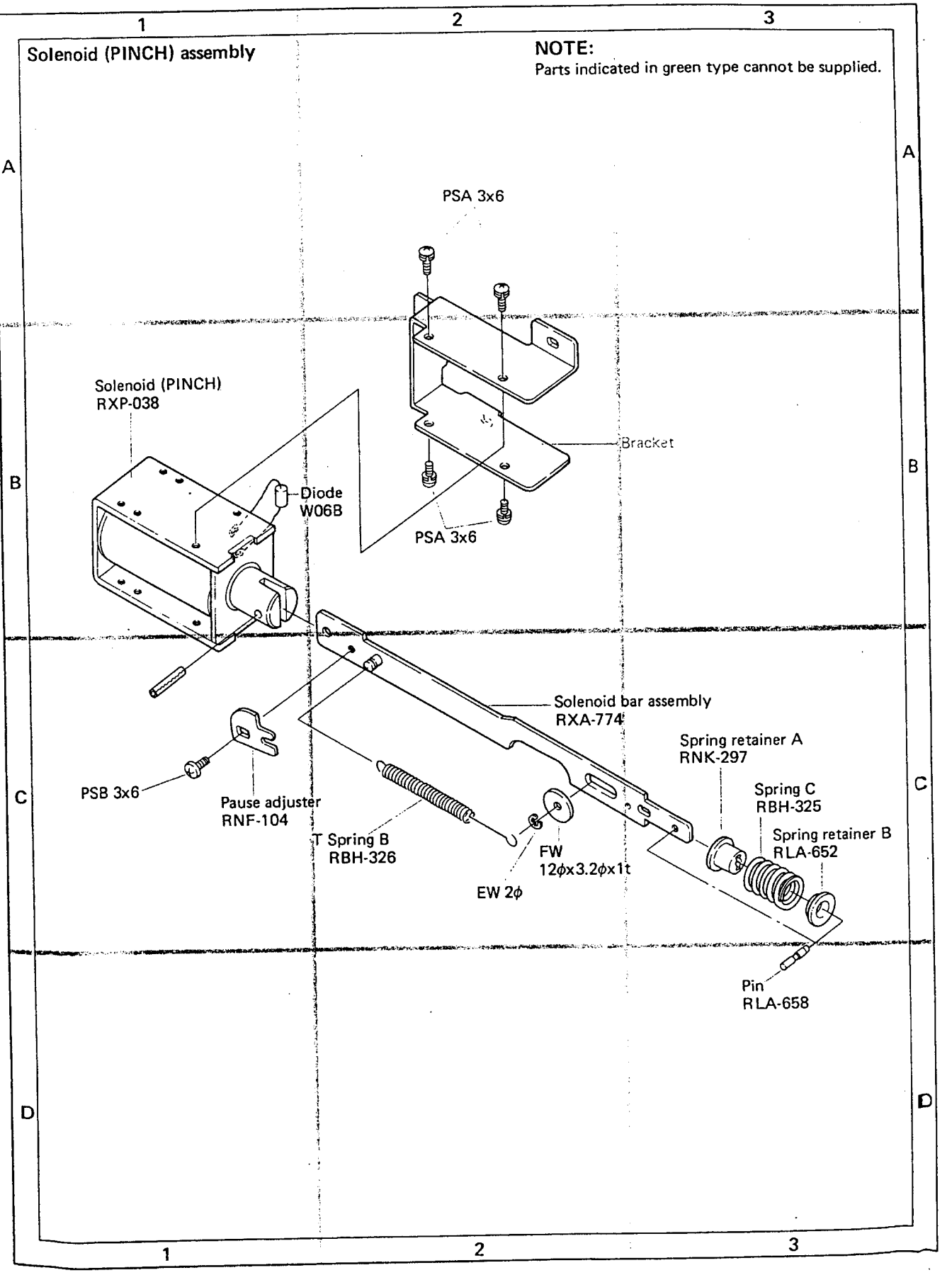
Tape counter assembly




1
2
3
Shut off assembly
NOTE:
Parts indicated in green type cannot be supplied.
PM 2.6x16
SW 2.6φ
Micro switch
RSF-007
Insulator
REE-060
A
Oil cap A
RLA-669
Shut off arm assembly
RXA-832
PSA 2.6x6
Shut off spring
RBH-352
Bracket
Shut off lever
RBH-320
Shut off arm pin
RLA-667
Oil cap B
RLA-668
PSA 2.6x6
B
Release assembly
Release arm stad
PLA-676
EW 4φ
PSA 3x8
Release arm spring
RBH-323
Rod collar
PLA-677
C
Release arm assembly
RXA-773
Release lever
RBH-322
D
Rod retainer
1
2
3

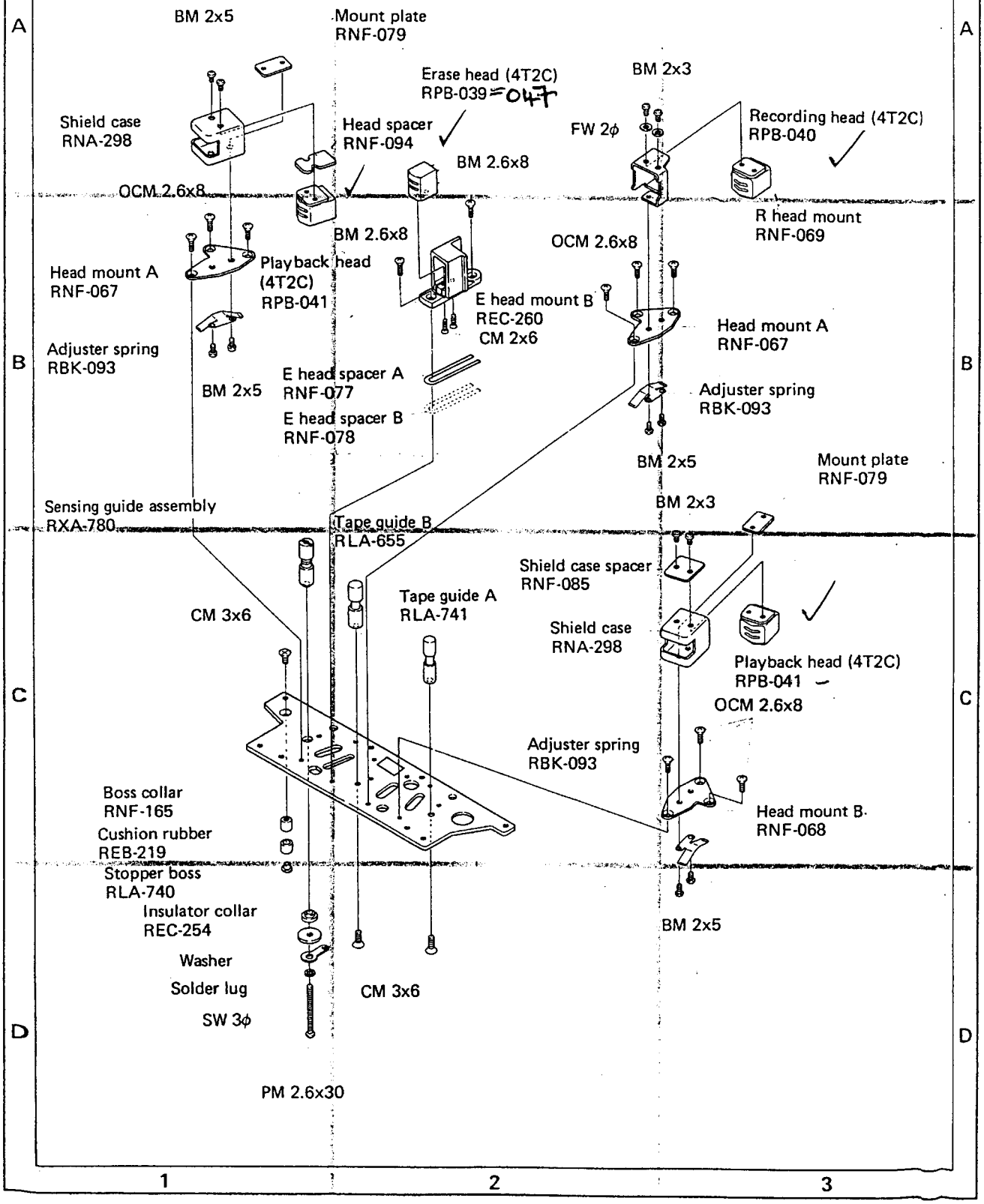
Solenoid (PINCH) assembly

NOTE:
Parts indicated in green type cannot be supplied.

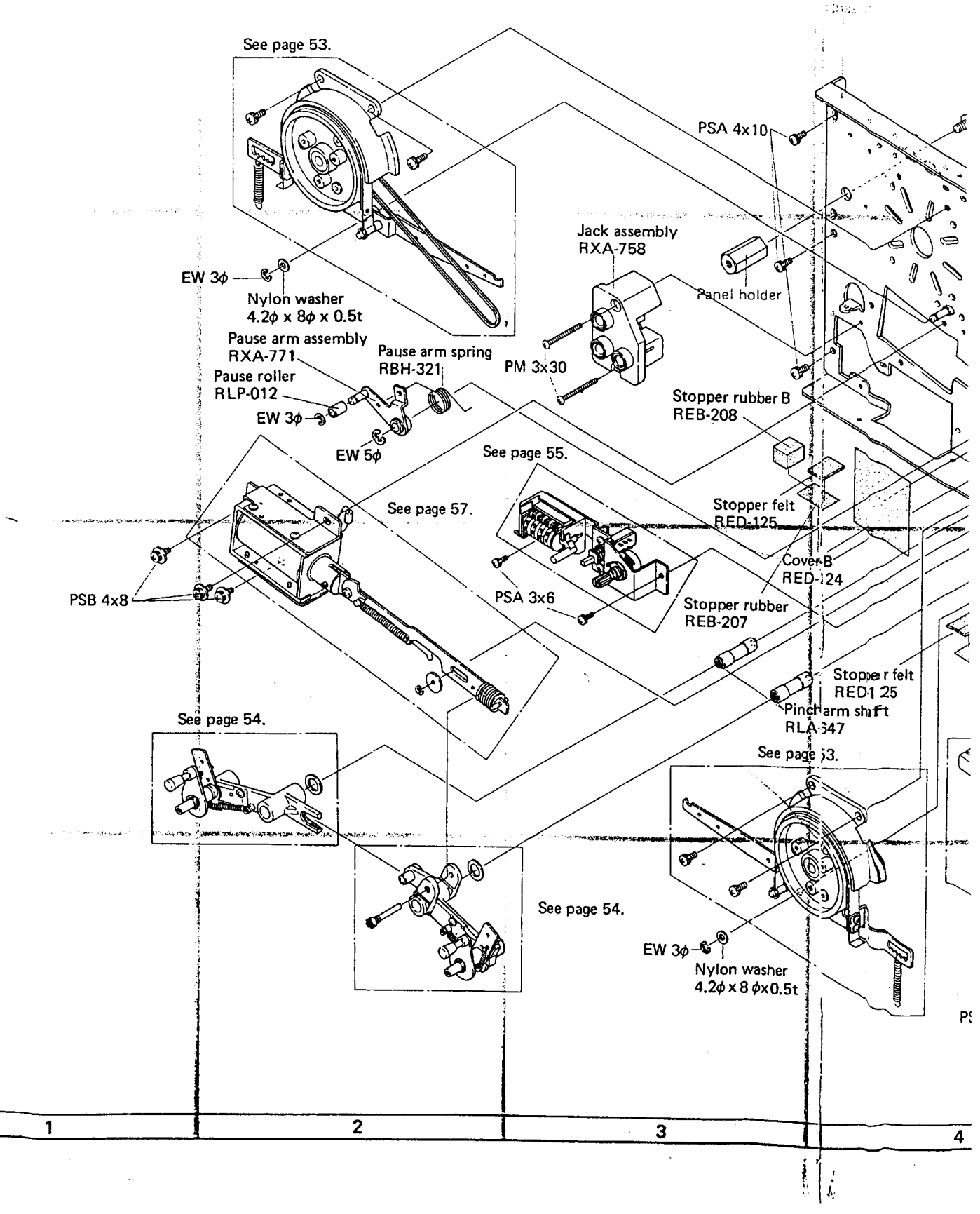


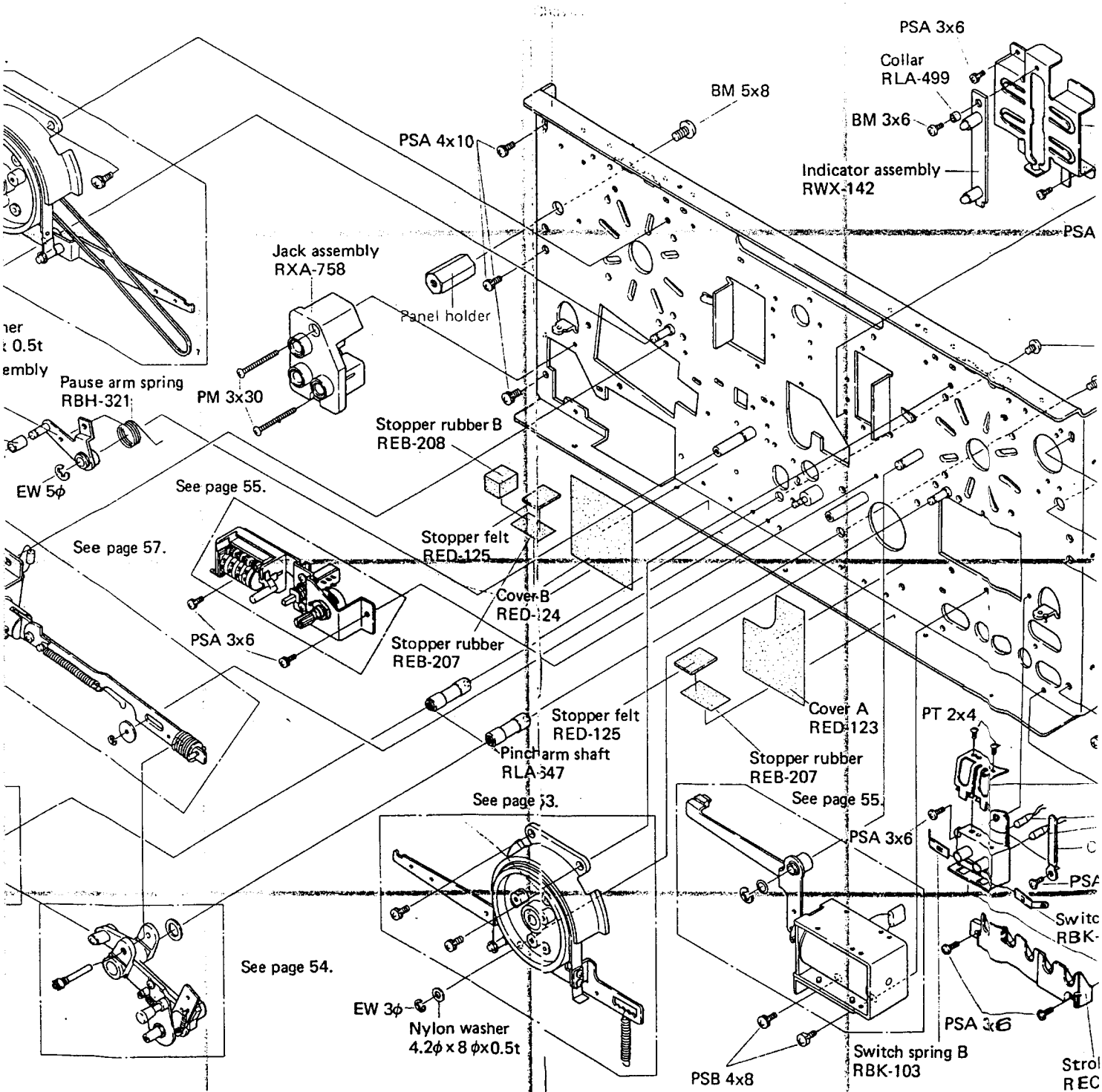
Head assembly

NOTE:
Parts indicated in green type cannot be supplied.

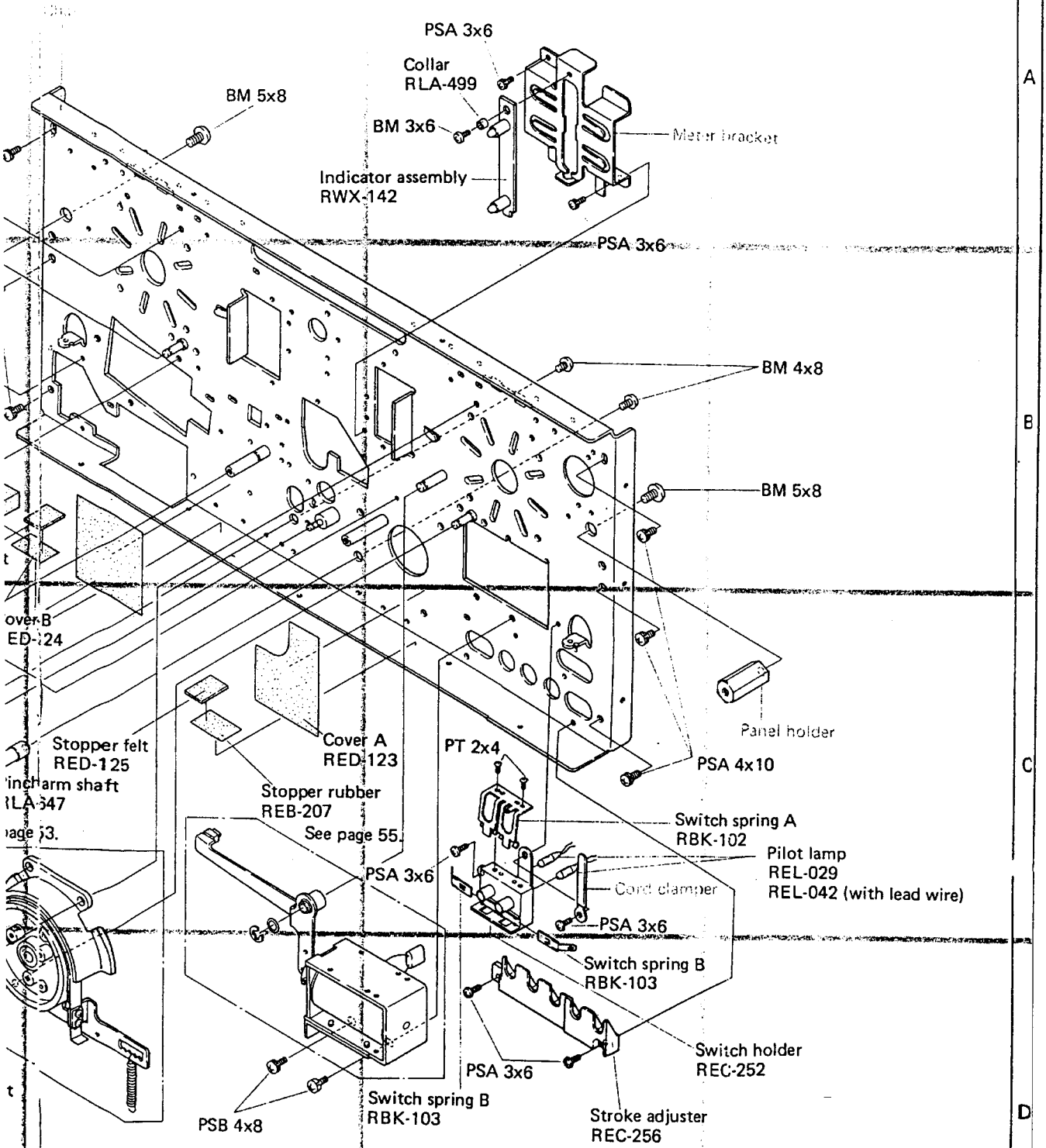


ont side view of mechanism chassis

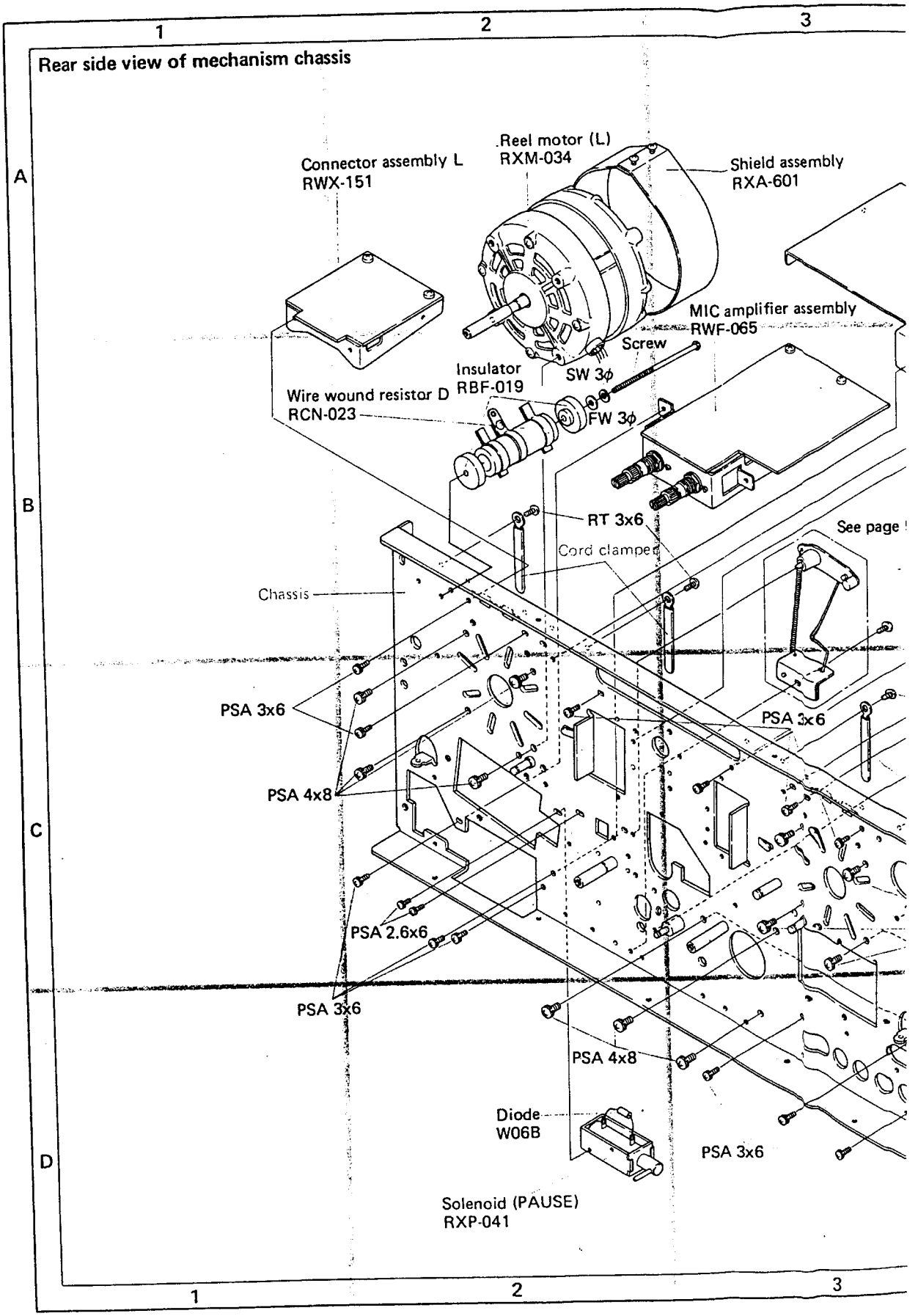


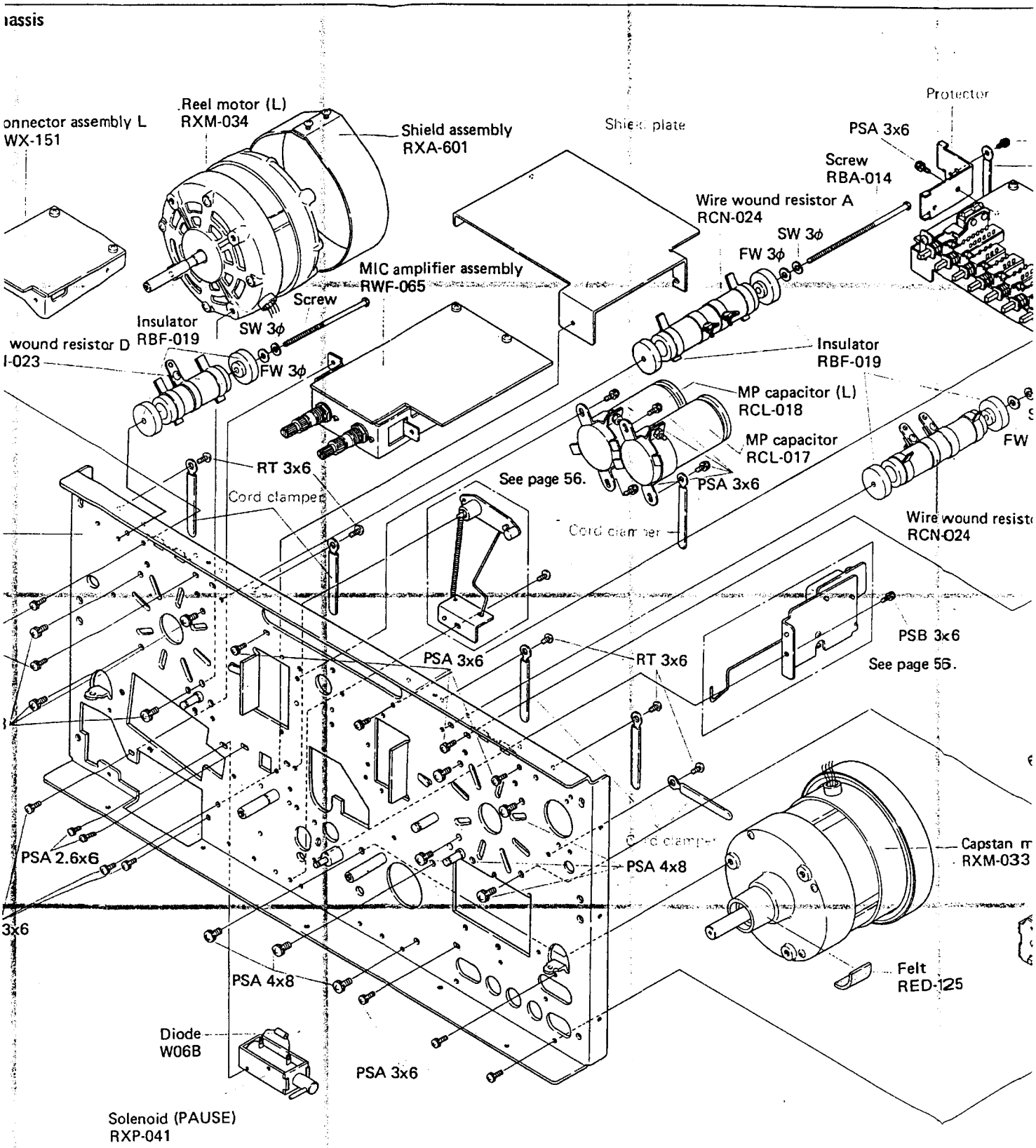

PSA 3x6
Collar
RLA-499
BM 5x8
BM 3x6
PSA 4x10
Indicator assembly
RWX-142
PSA
Jack assembly
RXA-758
Panel holder
Pause arm spring
RBH-321
PM 3x30
Stopper rubber B
REB-208
EW 5φ
See page 55.
See page 57.
Stopper felt
RED-125
Cover B
RED-124
PSA 3x6
Stopper rubber
REB-207
Stopper felt
RED-125
Pinch arm shaft
RLA-347
Cover A
RED-123
PT 2x4
Stopper rubber
REB-207
See page 53.
See page 55.
PSA 3x6
See page 54.
EW 3φ
Nylon washer
4.2φ x 8 φx0.5t
PSB 4x8
Switch spring B
RBK-103
PSA 3x6

NOTE:
Parts indicated in green type cannot be supplied.

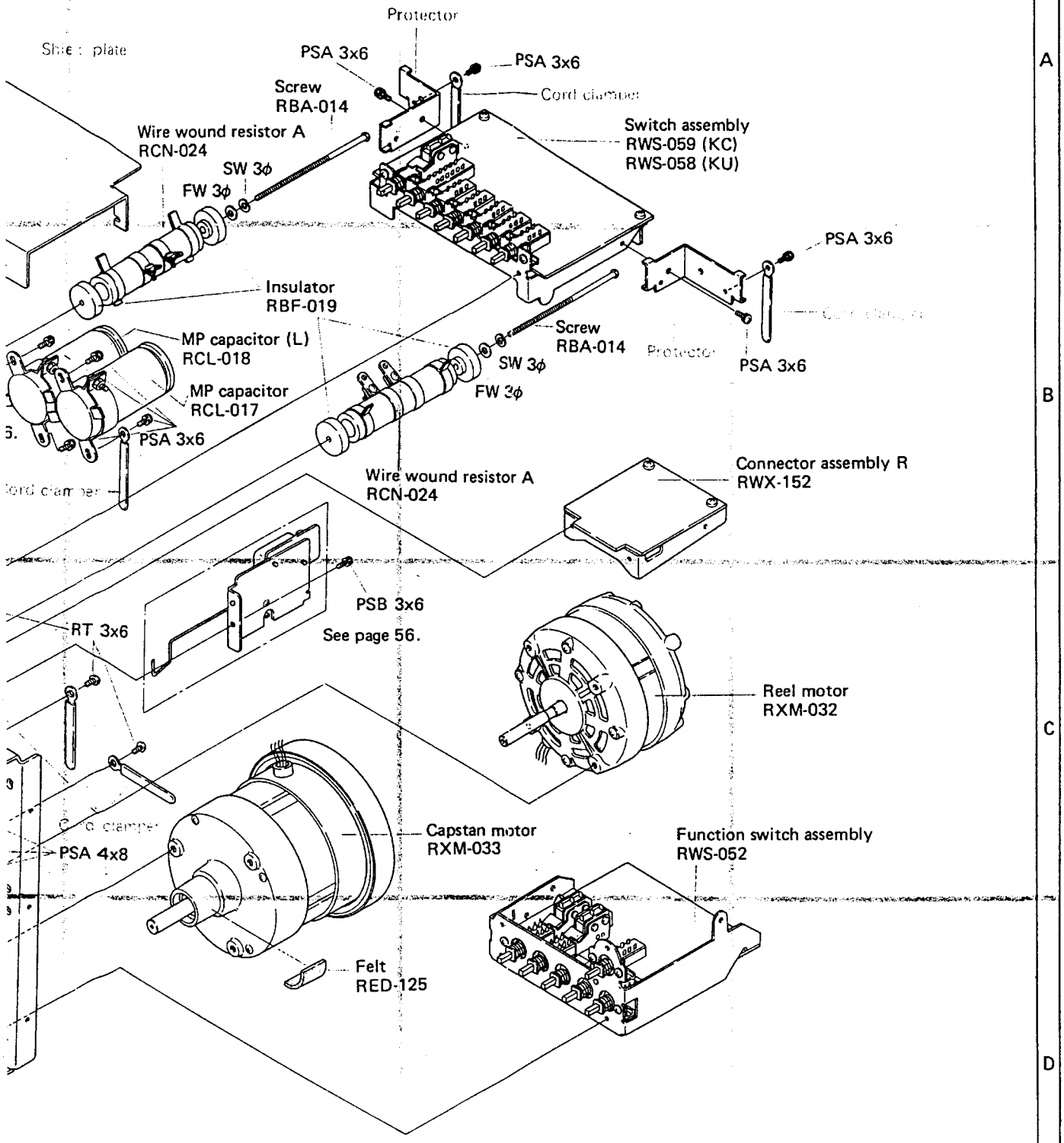


Rear side view of mechanism chassis

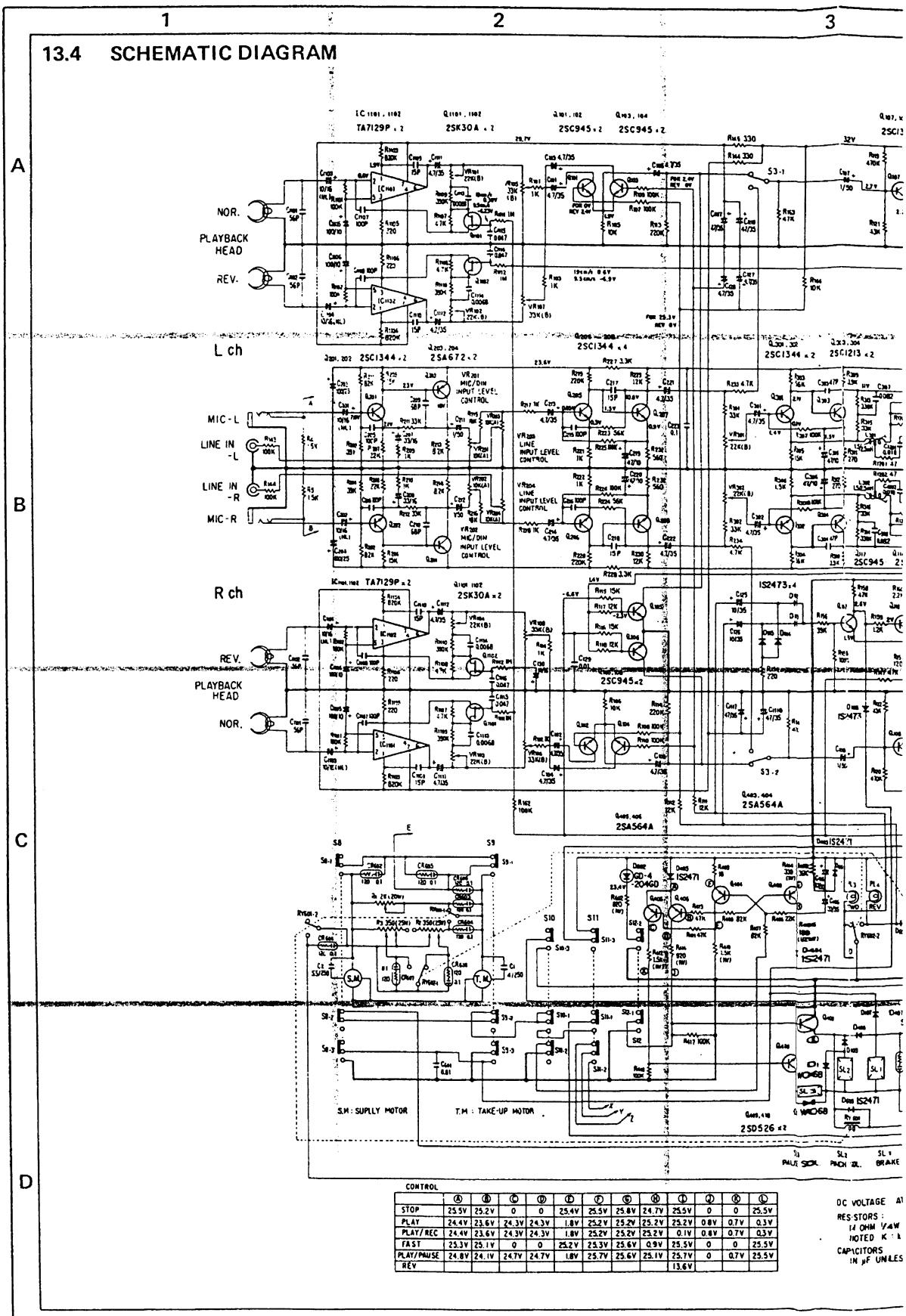



Reel motor (L)
RXM-034
Shield assembly
RXA-601
Shield plate
Protector
PSA 3x6
Screw
RBA-014
Wire wound resistor A
RCN-024
SW 3φ
FW 3φ
MIC amplifier assembly
RWF-065
Screw
SW 3φ
Insulator
RBF-019
FW 3φ
Insulator
RBF-019
MP capacitor (L)
RCL-018
MP capacitor
RCL-017
PSA 3x6
RT 3x6
Cord clamper
See page 56.
PSB 3x6
See page 55.
PSA 3x6
RT 3x6
PSA 2.6x6
PSA 4x8
Capstan m
RXM-033
Felt
RED-125
PSA 4x8
Diode
W06B
PSA 3x6
Solenoid (PAUSE)
RXP-041

NOTE:
Parts indicated in green type cannot be supplied.



13.4 SCHEMATIC DIAGRAM



CONTROL

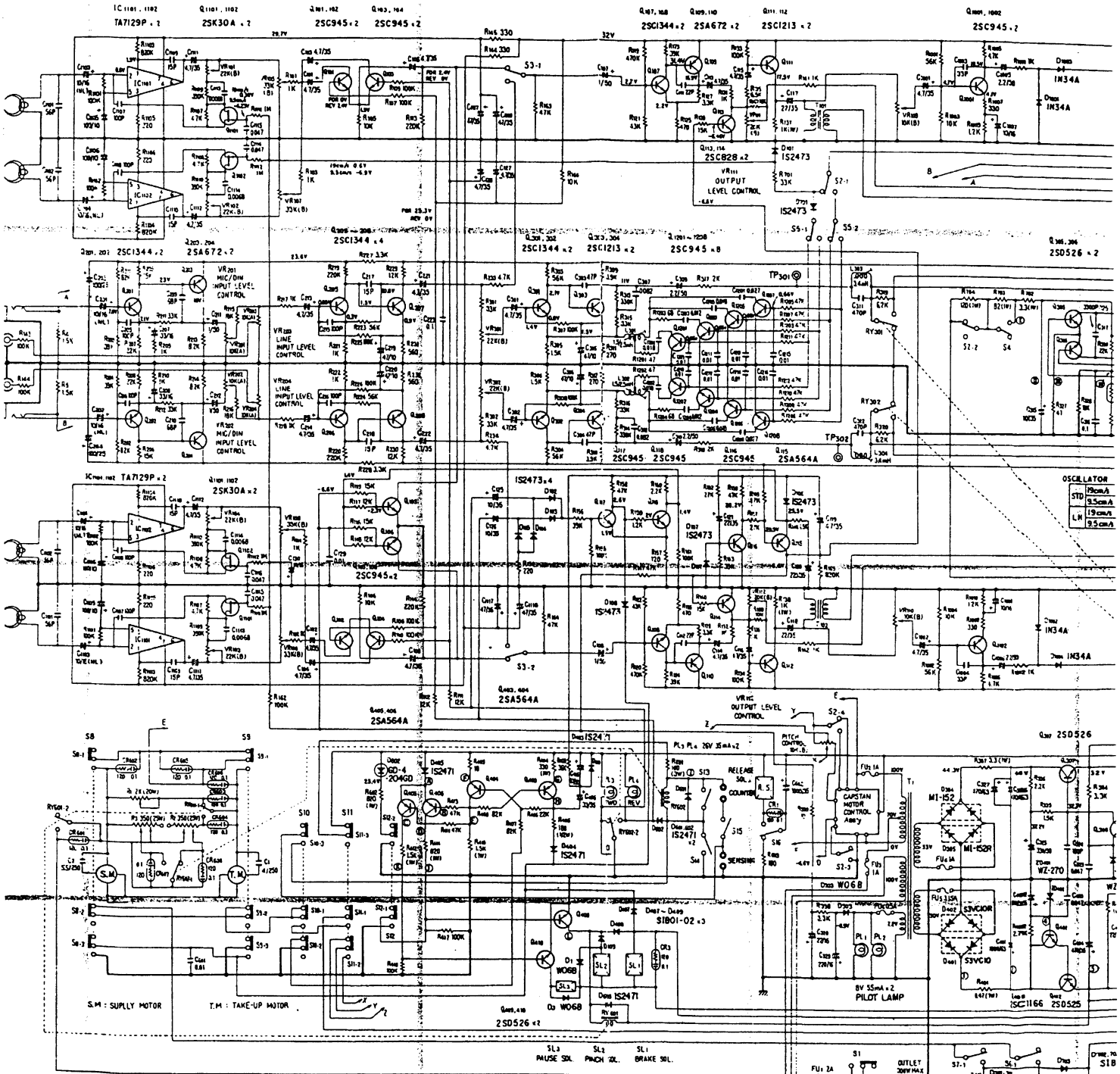
	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	Ⓗ	Ⓘ	Ⓙ	Ⓚ	Ⓛ
STOP	25.5V	25.2V	0	0	25.4V	25.5V	25.8V	24.7V	25.5V	0	0	25.5V
PLAY	24.4V	23.6V	24.3V	24.3V	1.8V	25.2V	25.2V	25.2V	25.2V	0.8V	0.7V	0.3V
PLAY/REC	24.4V	23.6V	24.3V	24.3V	1.8V	25.2V	25.2V	25.2V	0.1V	0.8V	0.7V	0.3V
FAST	25.3V	25.1V	0	0	25.2V	25.3V	25.6V	0.9V	25.5V	0	0	25.5V
PLAY/PAUSE	24.8V	24.1V	24.7V	24.7V	1.8V	25.7V	25.6V	25.1V	25.7V	0	0.7V	25.5V
REV									13.6V			

DC VOLTAGE AT

RESISTORS :
1/4 OHM V-W
NOTED K : k

CAPACITORS
IN μF UNLES

DIAGRAM



CONTROL

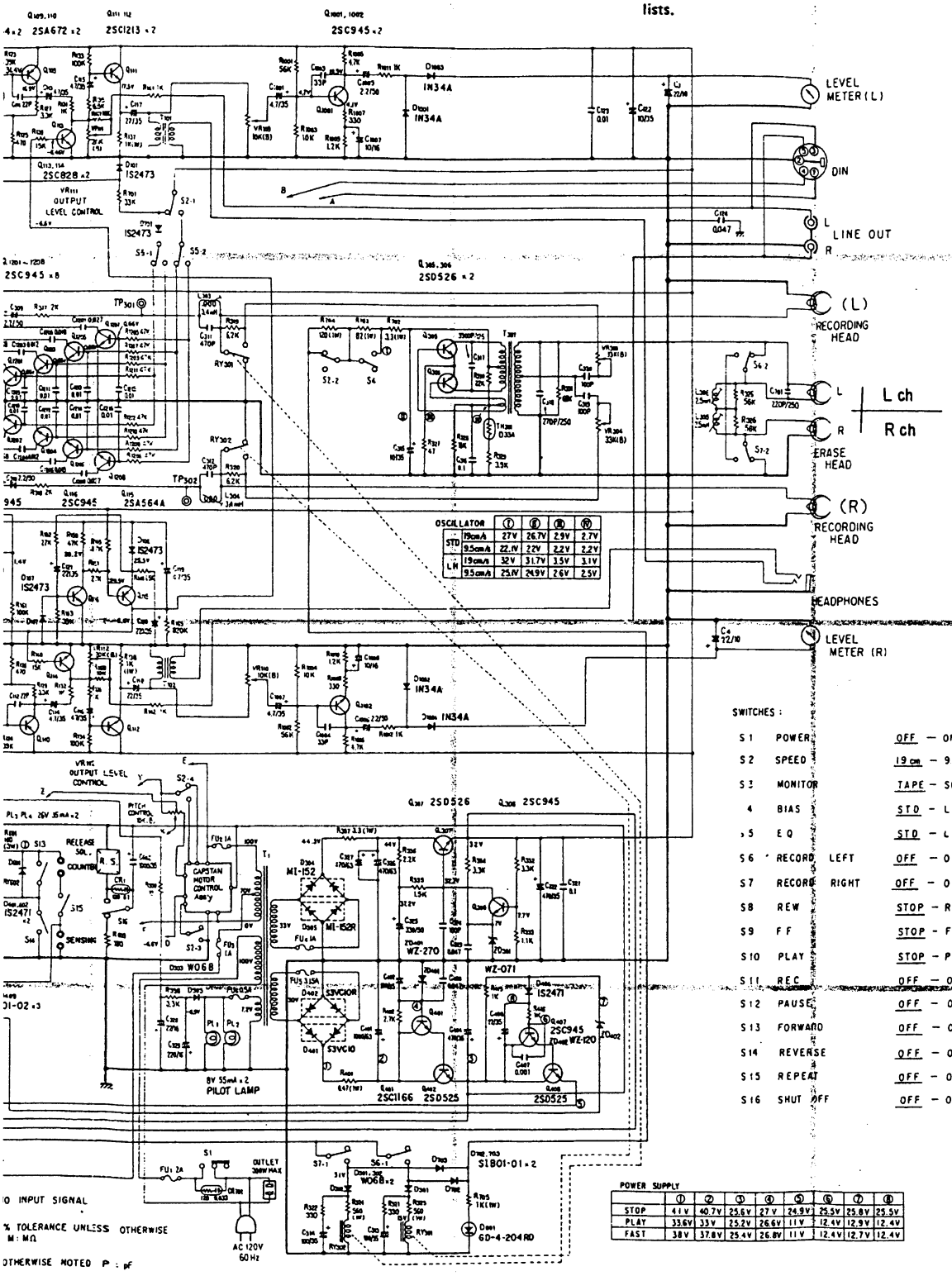
	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	Ⓗ	Ⓘ	Ⓙ	Ⓚ	Ⓛ
STOP	25.5V	25.2V	0	0	25.4V	25.5V	25.8V	24.7V	25.5V	0	0	25.5V
PLAY	24.4V	23.6V	24.3V	24.3V	1.8V	25.2V	25.2V	25.2V	25.2V	0.8V	0.7V	0.3V
PLAY/REC	24.4V	23.6V	24.3V	24.3V	1.8V	25.2V	25.2V	25.2V	0.1V	0.8V	0.7V	0.3V
FAST	25.3V	25.1V	0	0	25.2V	25.3V	25.6V	0.9V	25.5V	0	0	25.5V
PLAY/PAUSE	24.8V	24.1V	24.7V	24.7V	1.8V	25.7V	25.6V	25.1V	25.7V	0	0.7V	25.5V
REV									13.6V			

DC VOLTAGE AT NO INPUT SIGNAL

RESISTORS :
1/4 OHM 1/4W ±5% TOLERANCE UNLESS OTHERWISE NOTED K : kΩ M : MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED P : pF

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts lists.



SWITCHES :

S1	POWER	OFF	ON
S2	SPEED	19 cm	9.5 cm
S3	MONITOR	TAPE	SOURCE
4	BIAS	STD	LH
5	EQ	STD	LH
S6	RECORD LEFT	OFF	ON
S7	RECORD RIGHT	OFF	ON
S8	REW	STOP	REW
S9	FF	STOP	FF
S10	PLAY	STOP	PLAY
S11	REC	OFF	ON
S12	PAUSE	OFF	ON
S13	FORWARD	OFF	ON
S14	REVERSE	OFF	ON
S15	REPEAT	OFF	ON
S16	SHUT OFF	OFF	ON

POWER SUPPLY

	①	②	③	④	⑤	⑥	⑦	⑧
STOP	41V	40.7V	25.6V	27V	24.9V	25.5V	25.8V	25.5V
PLAY	33.6V	33V	25.2V	26.6V	11V	12.4V	12.9V	12.4V
FAST	38V	37.8V	25.4V	26.8V	11V	12.4V	12.7V	12.4V